



SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: ZENECA LIMITED .. .
- (ii) TITLE OF INVENTION: GENE SILENCING
- (iii) NUMBER OF SEQUENCES: 3

(iv) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: IP DEPT., ZENECA AGROCHEMICALS
- (B) STREET: JEALOTTS HILL RESEARCH STATION,
- (C) CITY: BRACKNELL,
- (D) STATE: BERKSHIRE
- (E) UNITED KINGDOM
- (F) ZIP: RG42 6ET

(v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Floppy disk
- (B) COMPUTER: IBM PC compatible
- (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: US/10/085,418

- (B) FILING DATE: 25-Mar-2003

(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Kakefuda, Mary

(ix) TELECOMMUNICATION INFORMATION:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3681 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: 1-AMINO CYCLOPROPANE-1-CARBOXYLIC ACID

OXIDASE

(vii) IMMEDIATE SOURCE:

(B) CLONE: pTOM13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

AAATTGATA GATTCAAGTTT TTATGTTTT AGTGCTGATT ACAACATTGA AATTCTAAAT 60

TTAGAATTAA ATATTTATTA AATGTAGTG CATTATACA AATAACATAT TACATCTCAA 120

ATAATATGAA GTTTCTTAGA TTTTATTCGC CCTGATTCT TATCATAAT AGGTTTCCT 180

TTTAGGAAAA GGTTTGAAAT TGACTATTCT TTTTTGGTA GGAAAAAGTT TAGGACTCTA 240

TAAATAGAGG CATGTTCCCTT CTAACTTAAT TAGCATTCAC AATGTAGTT TAAGGGCTTT 300

GAGAGTTTG GTTAGAGGGA GAATTGTGAA ACCTCTCATG TATTCGAGT GAATTGGTTG 360

AGGTTGTTTC CCTCTGTATT TTGTACTCTC ATGTTATAG TGGATTGCTC ATTTCTTGTG 420

TGGACCTAGG TCCATTGACC GAACCACGTT AAATTTTGT GTC'TTTGGT ATATTTCTG 480

TTCTTCTTAC TCGTGGTCTT TCGAGGTTTG CTTTGCTAGC TTCCGCGTTT ACACCTGCTT 540

AFTTTCGGTC CTAACAAGTG GTATCAGAGC CAGATTCAAT AATGGAGTCA GGTGTAGTGG 600

TTGGATAATC CATTGTTGAA CGAACCTTACG AAGACGCTGTT CATTCTTCAACG CGTGTACTTC 660

CTCTGTGTTG AGACATAAAAT TTTGTAAAGG AGATTATGGA GAGGAGAAGC AAGTTGTTGA 780
AGATTAAGTA AAGAAGGTGG ACAAACTAT TTTGTCAGAA ATTCAAGGCCA AGGGGGAGAT 840
TTGTTGGGTT TTATTTCCCC TGATTTTTA CCATAAAATAG GTTTCCTTT AAGGAAAAGG 900
TTTGAAATTG ACTATTCTTT TTTGGTAGG AAAAGGTTA GGATTCTATA AATAGAGGCA 960
TGTTCCCTCT AACTTAATTA GCATTACAA TGTAGTTTA AGGGCTTGA GAGTTTGTT 1020
TAGAGGGAGA ATTTGTGAAC CTCTCATGTA TTCCGAGTGA ATTGGTTGAG GTTGTTCCTC 1080
TCTGTATTT GTACTCTCAT GTTTATAGTG GATTGCTCAT TTCCTTTGAG GACGTAGGTC 1140
GATTGACCGA ACCACGTTAA ATCTTGTGT CTTTGTTAT ATTTCTCGTT GTCTTCTTAC 1200
TCGTGGTCTT TCGAGGTTTG CTTGCTAGC TTCCGCGTT ACACCTGCTT ATTTGCCGTC 1260
CTAACAGAGT TCGATGGGTT GAATCTATAA AAAGAAAAAT ATACTCGTGA TTCACGATTA 1320
TTTATATGAA AATATAATAA ATATTGAATT TCCTTGCTA TTTCTTATGT TTACGTCTT 1380
ATATTTCAAATTTTCCACC AATAC TGACA AGCCCTAGGC CATCTCTAGG AAATTCTAC 1440
AATTTTTTTT TTGTTGTTAA CTAGTTAAAT TGGCAGCCTT AAAGATTATT GTAAAATTCA 1500
AGGCAACTTC CTCAAGTACT ACAACTACAT TGTAACATCC CAGTCAAAGT GTCCTAAAAT 1560
TTTATAAAAT TTGACACATG AAACAATAGC ACAATAAATT TTAGTACTAT TGCAGCCATG 1620
GCCCATAAAGC CATCATGTAT TATAGTCAAA ATGGGTCCTT TTCCAATTG TCTTGATCCC 1680
AAAATCCCTT TGTAGGTAAG ATGGTTAAC AAGGAACAT GACTCTTAAG GTAGACTTGG 1740
ACTCATAGAC TTGTCATAAC TCATAAAGAC TTGGAATATA ATAATTATTC ATTTAAATTA 1800
TAATTCTCTA CTTTAATATC TTCTACTATA AATAACCTTT CAAAGCCTCA TTATTTGTAC 1860
ATCAAACATT GATATTCTAC TCTTCATCT TTTGTATTCAT CATTCTAT TTATTCAATA 1920
CACTTAGGAA AACACTTTAC CAAGAAATTA AGATGGAGAA CTTCCCAATT ATTAACCTGG 1980
AAAAGCTCAA TGGAGATGAG AGAGCCAAACCA CCAATGGAAAT GATCAAAGAT GCTTGTGAGA 2040
ATTGGGGCTT CTTTGAGGTA ATCATAAATT ACATAACAT ATTAATATGT TTGTTCAAT 2100
TTATCAGTCA TACTTTCTC TGTGTTAAAA TTAATGTCAC TTTCAATATT TAATAATTG 2160
CATGACATGT TTATAAACACA ACAAGATATA GGTTACATT TGATACATTA TATATAACTT 2220

GAACCATGGA ATTCCACATG AAGTAATGGA CACAGTAGAG AAAATGACAA AGGGACATTA 2400
CAAGAAGTGC ATGGAACAGA GGTAAAGGA ACTAGTGGCA AGTAAGGGAC TTGAGGCTGT 2460
TCAAGCTGAG GTTACTGATT TAGATGGGA AAGCACTTC TTCTTGCGCC ATCTTCCTAC 2520
TTCTAAATAC TCTCAAGTAC CCGATCTTGA CGAAGAACAG AGGTACATAC ATGTGTCTA 2580
CATATTGCGT ATATAATAAAA TAAACACAAA ATTTAAGTTA TATACGCTGA CAGTATAACT 2640
AATTATAATG TTGTACCAAA TGATGCAGAG AGGTGATGAG AGATTTGCT AAAAGATTGG 2700
AGAAATTGGC TGAGGAGTTA CTTGACTTAC TCTGTGAAAA TCTGGACTT GAAAAAGGTT 2760
ACTTGAAAAA TGCCTTTAT GGATCAAAAG GTCCCAACTT TGTTACTAAA GTTAGCAACT 2820
ATCCACCATG TCCTAACGCC GATTGATCA AGGGACTCCG CGCTCATACA GACGCAGGAG 2880
GCATCATACT TCTGTTCCAA GATGACAAAG TGAGTGGCT TCAACTCCTC AAAGACGAGC 2940
AATGGATCGA TGTTCCCTCC ATGCGCCACT CTATTGTGGT TAACCTTGGT GACCAACTTG 3000
AGGTACAAGA TTCACTAAGT GTGTGTGTT TTATCACTAT AACTTAGAAG TAGTAACTAA 3060
AAATGGTATT AATGAAATGT TATAAAACAA GGTGATCACT AACGGGAAGT ACAAGAGTGT 3120
GCTGCACAGA GTAATTGCAC AAACAGACGG GACACGAATG TCATTAGCCT CATTTCACAA 3180
TCCAGGAAGT GATGCAGTAA TATATCCAGC AAAAACTTG GTTGAAAAAG AGGCAGAGGA 3240
AAGTACACAA GTGTATCCAA AGTTTGTGTT TGATGATTAC ATGAAGTTAT ATGCTGGACT 3300
CAAGTTCAA GCCAAAGAGC CAAGATTGAA AGCAATGAAG GCAATGGAAA GTGATCCAAT 3360
TGCAAGTGCT TAGATCCCAA TTCAAATAAA AAAATTGGTG TTTGAAAAAT ATATTTAAAT 3420
ATAGCAATCT ATGTATACAC ATTATTTGCT CTTCTTATGT ATGGTAGAAT AAAGTTAGTA 3480
TTAAAAAAAGA TTGTGATTTG CTGCAATGT ATCAAAAAGA GTCTTAATAT TTGTATCTAT 3540
AAATAAGGTG CCTTCTAGTG AAATTATACA AATAATAATT TGAGTGTAT TGTTCTTCT 3600
CATGTAATTT AACTTTAAG TATCTTACTT TACAATATAC TGTTCACTTA TTGAACATAT 3660
TGAGTGATAT ATTGACTCAA T 3681

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA - page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CATTCATCTC TTCAATCTTT TG 22

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 26 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA (SEQ3) page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTTAATTCT TGGTAAAGTG TTTTCC 26